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RAW SEQUENCE LISTING

DATE: 03/18/2002

PATENT APPLICATION: US/10/042,091A

TIME: 16:02:09

Input Set : N:\Crif3\RULE60\10042091A.RAW

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1 <110> APPLICANT: Darrow, Andrew
 2 Andrade-Gordon, Patricia
 3 Qi, Jenson
 4 <120> TITLE OF INVENTION: DNA Encoding the Human Serine
 5 Protease EOS
 6 <130> FILE REFERENCE: ORT-1031
 7 <140> CURRENT APPLICATION NUMBER: 10/042,091A
 8 <141> CURRENT FILING DATE: 2002-01-08
 10 <150> PRIOR APPLICATION NUMBER: US/09/387,375
 11 <151> PRIOR FILING DATE: 1999-08-31
 13 <160> NUMBER OF SEQ ID NOS: 9
 14 <170> SOFTWARE: PatentIn Ver. 2.0
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 1613
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Homo sapiens
 20 <400> SEQUENCE: 1

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23 ctgggactca gggaaggaag tctgcagcct gcgggcagcc ccgcatgtcc agtcggatcg 180
24 ttgggggccc ggatggccgg gacggagagt ggccgtggca ggcgagcatc cagcatcctg 240
25 gggcacacgt gtgcgggggg tcgtcatcg cccccagtg ggtgctgaca gcggcgact 300
26 gcttccccag gagggcactg ccagctgagt accgcgtgcg cctgggggag ctgcgtctgg 360
27 gctccacctc gccccgcacg ctctcggtgc ccgtgcgacg ggtgctgctg cccccggact 420
28 actccgagga cggggcccgcc ggcgacctgg cactgctgca gctgcgtcgc ccggtgcccc 480
29 tgagcgctcg cgtccaaccc gtctgcctgc ccgtgcccgg cgcccggccc ccgcccggca 540
30 caccatgccg ggtcaccggc tggggcagcc tccgcccagg agtgcccctc ccagagtggc 600
31 gaccgctaca aggagtaagg gtgccgctgc tggactcgcg cacctgcgac ggccctctacc 660
32 acgtgggcgc ggacgtgccc caggctgagc gcattgtgct gcctgggagt ctgtgtgccc 720
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34 tgcagtctgg gagctgggtc ctggtgggag tggtagctg gggcaagggt tgtgccctgc 840
35 ccaaccgtcc aggggtctac accagtgtgg ccacatatag cccctggatt caggctcgcg 900
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38 ctaaaaaagc taaaggccac cccacccccc acccaaccac ttctggctcc tctcctcttt 1080
39 ggggatcacc agctctgact ccaccaaccc tcatccagga atctgccatg agtcccaggg 1140
40 agtcacactc cccactccct tcttggttg tatttacttt tcttggccct ggccagggct 1200
41 gggcgcaagg cacgcagtga tgggcaaacc aattgctgcc catctggcct gtgtgcccct 1260
42 ctttttctgg agaaagtcag attcacagca tgacagagat ttgacaccag ggagatcctc 1320
43 catagctggc tttgaggaca cggggaccac agccatgagc ggcctctaag agctgagaga 1380
44 cagccggcag ggaatcggaa ccctcagacc cacagccgca aggcactgga ttctggcagc 1440
45 accctgaagg agctgggaag taagtcttcc cccagcctcc agataagagc cccgcccggc 1500
46 aatcccttca tttcaaccta aagagaccct aagcagagaa cctagctgag ccactcctga 1560

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47      cctacaaagt tgtgacttaa taaatgtgtg ctttaagctg ccaaaaaaaaa aaa      1613
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50 <211> LENGTH: 20
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52 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: Description of Artificial Sequence:
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56 <400> SEQUENCE: 2
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61 <212> TYPE: DNA
62 <213> ORGANISM: Artificial Sequence
63 <220> FEATURE:
64 <223> OTHER INFORMATION: Description of Artificial Sequence:
65     oligonucleotide
66 <400> SEQUENCE: 3
67      ctgcttaggg tctctttagg      20
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72 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Description of Artificial Sequence:
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76 <400> SEQUENCE: 4
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82 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Description of Artificial Sequence:
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86 <400> SEQUENCE: 5
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90 <211> LENGTH: 34
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92 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Description of Artificial Sequence:
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96 <400> SEQUENCE: 6
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99 <210> SEQ ID NO: 7
100 <211> LENGTH: 284
101 <212> TYPE: PRT

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107 20 25 30
108 Met Ser Ser Arg Ile Val Gly Gly Arg Asp Gly Arg Asp Gly Glu Trp
109 35 40 45
110 Pro Trp Gln Ala Ser Ile Gln His Pro Gly Ala His Val Cys Gly Gly
111 50 55 60
112 Ser Leu Ile Ala Pro Gln Trp Val Leu Thr Ala Ala His Cys Phe Pro
113 65 70 75 80
114 Arg Arg Ala Leu Pro Ala Glu Tyr Arg Val Arg Leu Gly Ala Leu Arg
115 85 90 95
116 Leu Gly Ser Thr Ser Pro Arg Thr Leu Ser Val Pro Val Arg Arg Val
117 100 105 110
118 Leu Leu Pro Pro Asp Tyr Ser Glu Asp Gly Ala Arg Gly Asp Leu Ala
119 115 120 125
120 Leu Leu Gln Leu Arg Arg Pro Val Pro Leu Ser Ala Arg Val Gln Pro
121 130 135 140
122 Val Cys Leu Pro Val Pro Gly Ala Arg Pro Pro Gly Thr Pro Cys
123 145 150 155 160
124 Arg Val Thr Gly Trp Gly Ser Leu Arg Pro Gly Val Pro Leu Pro Glu
125 165 170 175
126 Trp Arg Pro Leu Gln Gly Val Arg Val Pro Leu Leu Asp Ser Arg Thr
127 180 185 190
128 Cys Asp Gly Leu Tyr His Val Gly Ala Asp Val Pro Gln Ala Glu Arg
129 195 200 205
130 Ile Val Leu Pro Gly Ser Leu Cys Ala Gly Tyr Pro Gln Gly His Lys
131 210 215 220
132 Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro Leu Thr Cys Leu Gln Ser
133 225 230 235 240
134 Gly Ser Trp Val Leu Val Gly Val Val Ser Trp Gly Lys Gly Cys Ala
135 245 250 255
136 Leu Pro Asn Arg Pro Gly Val Tyr Thr Ser Val Ala Thr Tyr Ser Pro
137 260 265 270
138 Trp Ile Gln Ala Arg Val Thr Ser Asn Ala Ser Arg
139 275 280
141 <210> SEQ ID NO: 8
142 <211> LENGTH: 1130
143 <212> TYPE: DNA
144 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleic acid
147 sequence of EOS zymogen fusion gene
148 <400> SEQUENCE: 8
149 gaattcacca ccatggacag caaagggttcg tcgcagaaat cccgcctgct cctgctgctg 60
150 gtgggtgtcaa atctactctt gtgccagggt gtggtctccg actacaagga cgacgacgac 120
151 gtggacgcgg ccgctcttgc tgcccccttt gatgatgatg acaagatcgt tgggggctat 180

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152 gctctagagg acggagagtg gccgtggcag gcgagcatcc agcatcctgg ggcacacgtg 240
153 tgcgggggggt cgctcatcgc cccccagtgg gtgctgacag cggcgactg cttccccagg 300
154 agggcactgc cagctgagta ccgcgtgcgc ctggggggcgc tgcgtctggg ctccacctcg 360
155 ccccgacgc tctcgggtgcc cgtgcgacgg gtgctgctgc ccccgacta ctccgaggac 420
156 ggggcccgcg gcgacctggc actgctgcag ctgcgtcgcc cgggtgcccct gagegctcgc 480
157 gtccaacccg tctgcctgcc cgtgcccggc gcccgcccgc cggccggcac accatgccgg 540
158 gtcaccggct ggggcagcct ccgcccagga gtgcccctcc cagagtggcg accgctacaa 600
159 ggagtaaggg tgccgctgct ggactcgcgc acctgcgacg gcctctacca cgtgggcgcg 660
160 gacgtgcccc aggctgagcg cattgtgctg cctgggagtc tgtgtgccgg ctacccccag 720
161 ggccacaagg acgcctgcca ggggtgattct gggggacctc tgacctgcct gcagtctggg 780
162 agctgggtcc tggtgggcgt ggtgagctgg ggcaagggtt gtgccctgcc caaccgtcca 840
163 ggggtctaca ccagtgtggc cacatatagc ccctggattc aggctcgcgt cacttctaata 900
164 gcttctagat acccctaagg tgtgcccgat tacgccgcta gacatcacca tcaccatcac 960
165 tagcgccgcg ttcccttttag tgagggttaa tgcttcgagc agacatgata agatacattg 1020
166 atgagtttgg acaaacacaca actagaatgc agtgaaaaaa atgctttatt tgtgaaattt 1080
167 gtgatgctat tgctttattt gtaaccatta taagctgcaa taaacaagtt 1130
169 <210> SEQ ID NO: 9
170 <211> LENGTH: 316
171 <212> TYPE: PRT
172 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Description of Artificial Sequence: Amino acid
175 sequence of EOS zymogen fusion gene
176 <400> SEQUENCE: 9
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178 1 5 10 15
179 Val Val Ser Asn Leu Leu Leu Cys Gln Gly Val Val Ser Asp Tyr Lys
180 20 25 30
181 Asp Asp Asp Asp Val Asp Ala Ala Ala Leu Ala Ala Pro Phe Asp Asp
182 35 40 45
183 Asp Asp Lys Ile Val Gly Gly Tyr Ala Leu Glu Asp Gly Glu Trp Pro
184 50 55 60
185 Trp Gln Ala Ser Ile Gln His Pro Gly Ala His Val Cys Gly Gly Ser
186 65 70 75 80
187 Leu Ile Ala Pro Gln Trp Val Leu Thr Ala Ala His Cys Phe Pro Arg
188 85 90 95
189 Arg Ala Leu Pro Ala Glu Tyr Arg Val Arg Leu Gly Ala Leu Arg Leu
190 100 105 110
191 Gly Ser Thr Ser Pro Arg Thr Leu Ser Val Pro Val Arg Arg Val Leu
192 115 120 125
193 Leu Pro Pro Asp Tyr Ser Glu Asp Gly Ala Arg Gly Asp Leu Ala Leu
194 130 135 140
195 Leu Gln Leu Arg Arg Pro Val Pro Leu Ser Ala Arg Val Gln Pro Val
196 145 150 155 160
197 Cys Leu Pro Val Pro Gly Ala Arg Pro Pro Pro Gly Thr Pro Cys Arg
198 165 170 175
199 Val Thr Gly Trp Gly Ser Leu Arg Pro Gly Val Pro Leu Pro Glu Trp
200 180 185 190
201 Arg Pro Leu Gln Gly Val Arg Val Pro Leu Leu Asp Ser Arg Thr Cys

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202		195		200		205
203	Asp	Gly	Leu	Tyr	His	Val
204		210		215		220
205	Val	Leu	Pro	Gly	Ser	Leu
206		225		230		235
207	Ala	Cys	Gln	Gly	Asp	Ser
208				245		250
209	Ser	Trp	Val	Leu	Val	Gly
210				260		265
211	Pro	Asn	Arg	Pro	Gly	Val
212				275		280
213	Ile	Gln	Ala	Arg	Val	Thr
214				290		295
215	Pro	Asp	Tyr	Ala	Ala	Arg
216				305		310

VERIFICATION SUMMARY

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